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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/038,557	01/03/2002	Terry M. Fredeking	24881-301D	8399
75	590 08/15/2006		EXAM	INER
•	IDERS & DEMPSEY	CHONG, YONG SOO		
801 S FIGUEROA ST 14TH FLOOR			ART UNIT	PAPER NUMBER
LOS ANGELE	LOS ANGELES, CA 90017-5554			
			DATE MAILED: 08/15/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/038,557	FREDEKING ET AL.				
Office Action Summary	Examiner	Art Unit				
	Yong S. Chong	1617				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with th	e correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING DOWN THE MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATI 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS fr , cause the application to become ABANDO	ON. e timely filed rom the mailing date of this communication. DNED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 22 M	ay 2006.					
,	·					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11,	, 453 O.G. 213.				
Disposition of Claims						
4) ⊠ Claim(s) <u>13-26</u> is/are pending in the applicatio 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>13-26</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the drawing(s) be held in abeyance. tion is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	4) Interview Summ Paper No(s)/Ma 5) Notice of Inform 6) Other:					

DETAILED ACTION

Status of the Application

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/22/2006 has been entered.

Claim(s) 1-12 have been cancelled. Claim(s) 21-26 have been added. Claim(s) 13-26 are pending. Claim(s) 13, 18-20 have been amended. Claim(s) 13-26 are examined herein.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in Graham vs John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 13-26 are rejected under 35 U.S.C. 103(a) as being obvious over Golub et al. (US Patent 6,015,804).

Golub et al. teach that tetracycline increases the endogenous levels of IL-10 in mammals, which is useful in reducing the levels of IL-1 and TNF-alpha (see abstract). IL-10 can be administered to treat diseases or conditions, such as inflammation, diabetes, cancer, graft versus host disease, inflammatory bowel disease, arthritis, autoimmune disorders, and rheumatoid arthritis (col. 2, lines 6-18). Furthermore, IL-10 is produced by cells present in the blood (col. 4, lines 59-64), either in vivo or in vitro (col. 5, lines 54-55). Density gradient centrifugation was used to isolate the blood (examples 1-2). Upon centrifugation, blood is inherently separated into fractions containing globulin, anti-hemophilia factor, albumin, serum, and plasma.

Examiner views the limitations regarding the increase of cytokine receptors as properties of the process of making the composition. "Products of identical chemical composition can not have mutual exclusive properties." Any properties exhibited by or benefits from are not given any patentable weight over the prior art provided the composition is inherent. A chemical composition and its properties are inseparable. Therefore, if the prior art teaches the identical chemical structure, the disclosed properties are necessarily present. *In re Spada*, 911 F.2d 705, 709, 15 USPQ 1655, 1658 (Fed. Cir. 1990). See MPEP 2112.01. The burden is shifted to the applicant to show that the prior art product does not inherently possess the same properties as the instantly claimed product.

Furthermore, the list of diseases are considered preamble and also will not be given any patentable weight. It is respectfully pointed out that a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish from each other. If the prior art structure is capable of performing the intended use, then it meets the claim. In a claim drawn to a process of making, the intended use must result in a manipulative difference as compared to the prior art. See *In re Casey*, 152 USPQ 235 (CCPA 1967) and *In re Otto*, 136 USPQ 458, 459 (CCPA 1963). Thus, the intended use of a composition claim will be given no patentable weight.

It is further respectfully pointed out that a preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951). See MPEP 2111.02.

Golub et al., however fails to disclose a specific isolation step of the blood.

It would have been prima facie obvious to a person of ordinary skill in the art, at the time the claimed invention was made, to isolate the blood by density gradient centrifugation in a separate step.

A person of ordinary skill in the art would have been motivated to isolate the blood by density gradient centrifugation because of the expectancy to isolate and

increase the amount of blood containing increased cytokine receptors to be used for therapeutic means.

Response to Arguments

Applicant's arguments have been fully considered but found not persuasive. The rejection is maintained for reasons of record.

Applicant argues that the Golub et al. reference is directed to a method of increasing cytokine, not a cytokine receptor, even though the same tetracycline derivatives are disclosed to be administered. Additionally, applicants argue that the three-fold increase of cytokine receptors limitation has not been met.

Examiner views these limitations as having no patentable weight. When a patient is given the same tetracycline derivatives, the biological reactions (three-fold increase of cytokine receptors) that consequently occur in the body are inherent. It is applicants burden to show that the claimed functional properties of tetracyclines will not occur in the situation as disclosed by Golub et al.

"Products of identical chemical composition can not have mutual exclusive properties." Any properties exhibited by or benefits from are not given any patentable weight over the prior art provided the composition is inherent. A chemical composition and its properties are inseparable. Therefore, if the prior art teaches the identical chemical structure, the disclosed properties are necessarily present. *In re Spada*, 911 F.2d 705, 709, 15 USPQ 1655, 1658 (Fed. Cir. 1990). See MPEP 2112.01. The burden is shifted to the applicant to show that the prior art product does not inherently possess the same properties as the instantly claimed product.

It is well known in Patent Law that if applicants are claiming a biological pathway as the basis for their invention then a mechanism by which the active ingredient gives the pharmacological effect does not alter the fact that the compound has been previously used to obtain the same pharmacological effects which would result from the claimed method. The patient, condition to be treated, and the effect are the same. An explanation of why that effect occurs does not make novel or even unobvious the treatment of the conditions encompasses by the claims.

Applicant's arguments herein are related to the mechanism of action of an agent in the treatment. Note that the mechanism of action of an agent in the treatment, by itself, does not have a bearing on the patentability of the invention if the method steps are already known even though applicant has proposed or claimed the mechanism. Applicant's recitation of a new mechanism of action for the prior art method *will not, by itself, distinguish* the instant claims over the prior art teaching the same or nearly the same method steps.

Applicant also argues that Golub et al. does not recognize the inherent properties of tetracycline because the isolations operations as disclosed by Golub et al. do not relate to isolation of the blood or fraction thereof for a composition for the treatment of a disease, condition, or disorder. This is not persuasive because Golub et al. clearly teach increasing IL-10 in examples 1 and 2, which are also taught to treat diseases or conditions, such as inflammation, diabetes, cancer, graft versus host disease, inflammatory bowel disease, arthritis, autoimmune disorders, and rheumatoid arthritis (col. 2, lines 6-18). Golub et al. disclose that the following examples are provided to

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assist in further understanding the invention and are intended to be further illustrative of the invention and are not limiting upon the reasonable scope thereof (col. 9, lines 15-19). Therefore, the motivation to modify Golub et al. to isolate the blood by density gradient centrifugation is because of the expectancy to isolate and increase the amount of blood containing increased cytokine receptors to be used for therapeutic means.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yong S. Chong whose telephone number is (571)-272-8513. The examiner can normally be reached on M-F, 9-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, SREENI PADMANABHAN can be reached on (571)-272-0629. The fax phone number for the organization where this application or proceeding is assigned is (571)-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SHENGJUN WANG PRIMARY EXAMINER